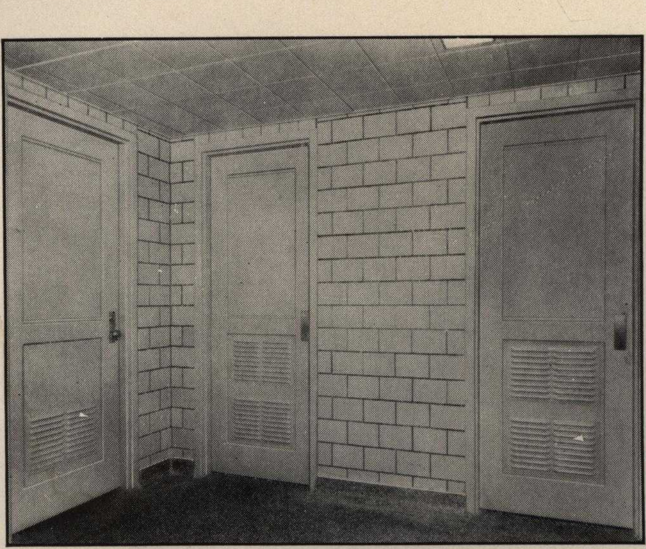
AIA FILE 16 A

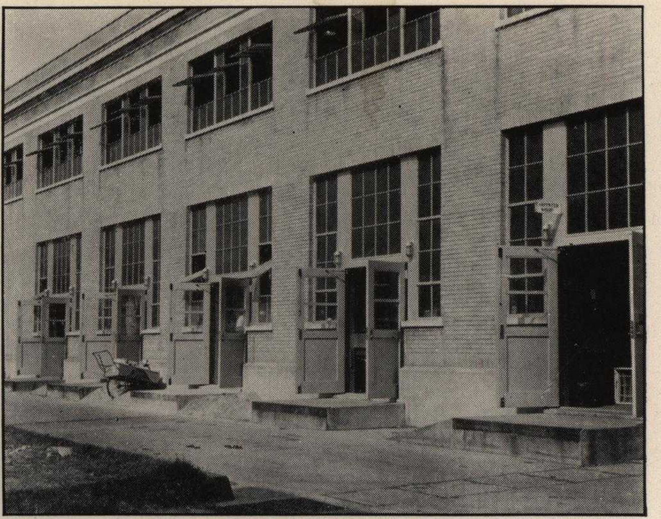
Fenestra

HOLLOW METAL DOORS SWING AND SLIDE

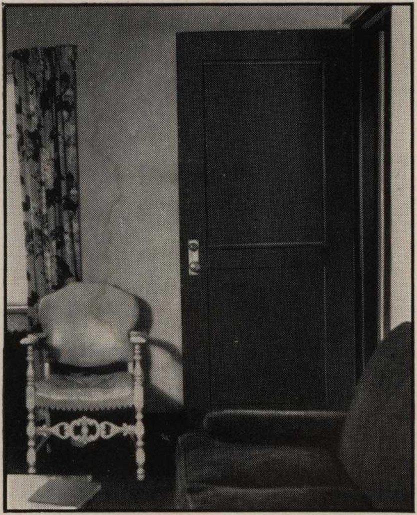
SWEET'S ARCHITECTURAL FILE, 1950



Michigan State College bldg. Archt: Ralph Calder. Contr: Christman Co.

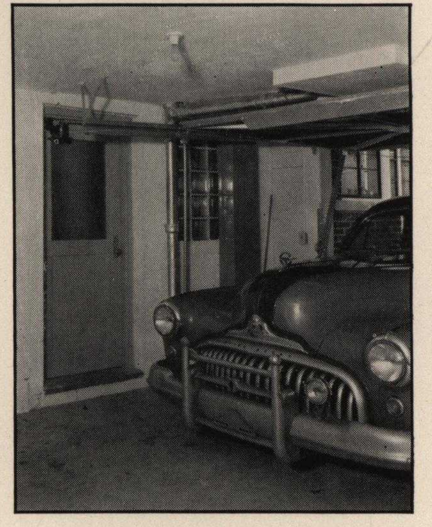


Naval Hospital, Portsmouth, Virginia.

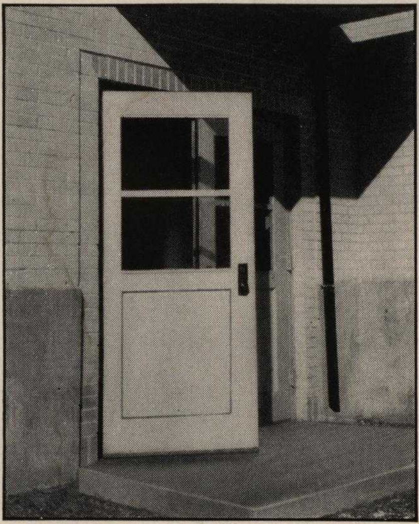


Apartment, Crafton, Pa. Architect: W. C. Young.

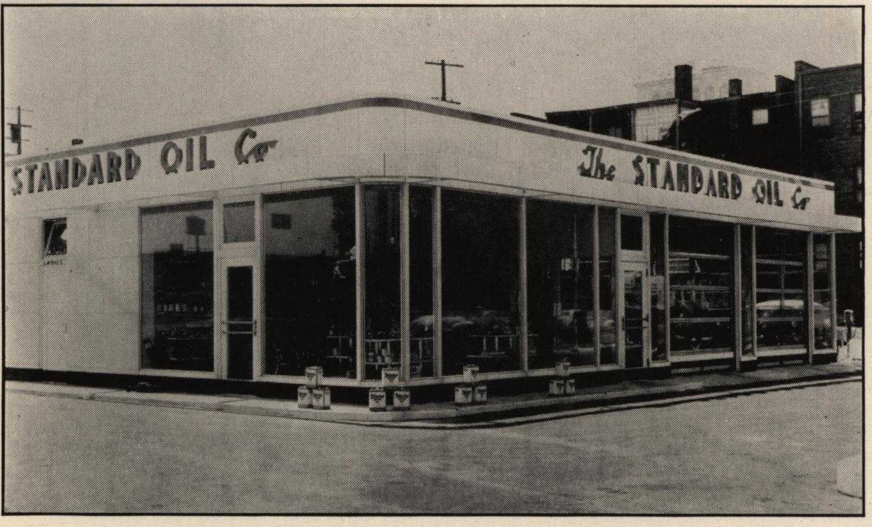
J. A. Folger & Co., Houston. Archt: R. J. Cummins.



Residence, Detroit, Mich. Archt: R. Dragovich.



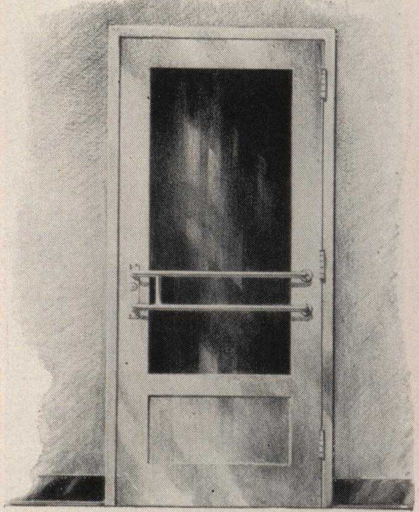
Schumaker Co., Houston. Contr: Fritz Const. Co.



Service station designed and built by The Austin Company

Fenestra

HOLLOW METAL DOORS



FOREWORD

FENESTRA* Hollow Metal Doors are furnished in standardized types and sizes adaptable to all kinds of buildings—from residences and hotels to office buildings and factories. They are available in four styles—Entrance, Swing, Slide and Underwriters'. All types and sizes have been standardized to allow low selling prices through mass production. The types and sizes selected for standardization represent those most commonly used in modern buildings. Their designs are the result of years of research and experience, with the Detroit Steel Products Company cooperating with leading architects and engineers. . . . Every effort has been made in this catalog to present information in as complete and as usable a form as possible. Should any additional information be desired about any product, consult your nearest Fenestra representative.

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THE FENESTRA CODE

. . . To provide the architectural profession specifically, and the construction industry generally, with building products of excellent design and uniform high quality.

. . . To contribute to the progress of architecture by developing new and superior materials through research.

. . . To publish each year better and more complete details of Fenestra products, including such information as will prove most helpful to the profession.

DETROIT STEEL PRODUCTS COMPANY

General Offices, 2250 East Grand Boulevard, Detroit 11, Michigan. Sales Offices in principal cities; factories in Detroit, Buffalo, Philadelphia, Oakland and Erie, Pa. Member of Producers' Council; affiliated with the American Institute of Architects. Copyright 1949, Detroit Steel Products Company.

MANUFACTURERS OF FENESTRA BUILDING PRODUCTS

*Trademark

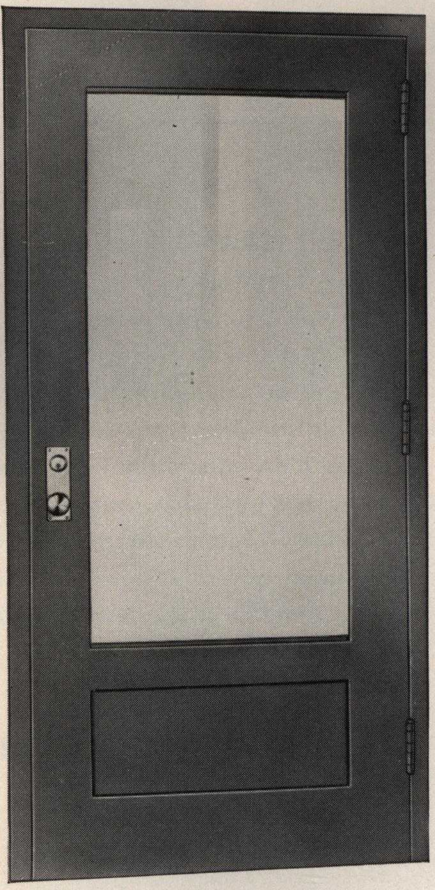
OCTOBER, 1949

ENTRANCE DOORS

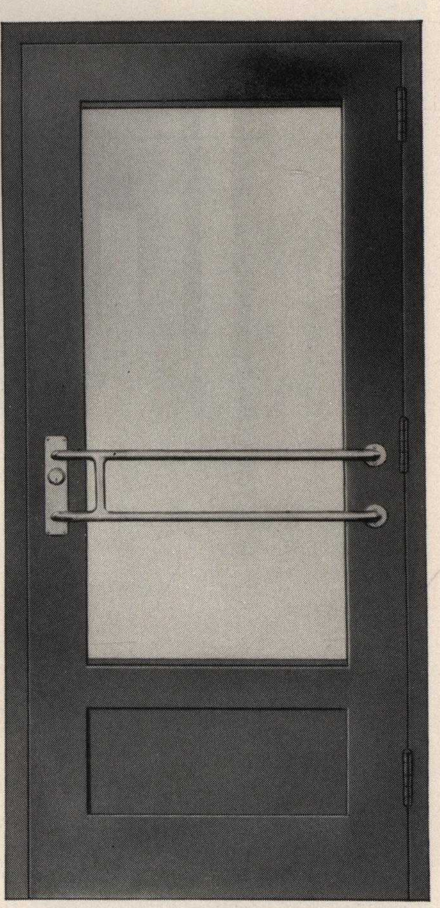
FENESTRA Hollow Metal Entrance Doors are attractive, long-lasting steel doors, entirely new in design, for use in apartments, stores, gas stations, schools, offices, theaters, etc. Furnished in two sizes—3′ 0″ x 7′ 0″ and 3′ 8″ x 7′ 0″—they are used in either single or double openings and may be hinged right or left to swing in or out. Frames and template hardware are supplied. Bronze push and pull bars and bronze ball bearing hinges are optional at extra cost.

Hollow metal stiles and rails are made of sturdy 16-gauge steel. A noiseless bottom panel, 3/8″ thick, is composed of two steel sheets separated by a layer of insulation. Door frames are 16-gauge pressed steel.

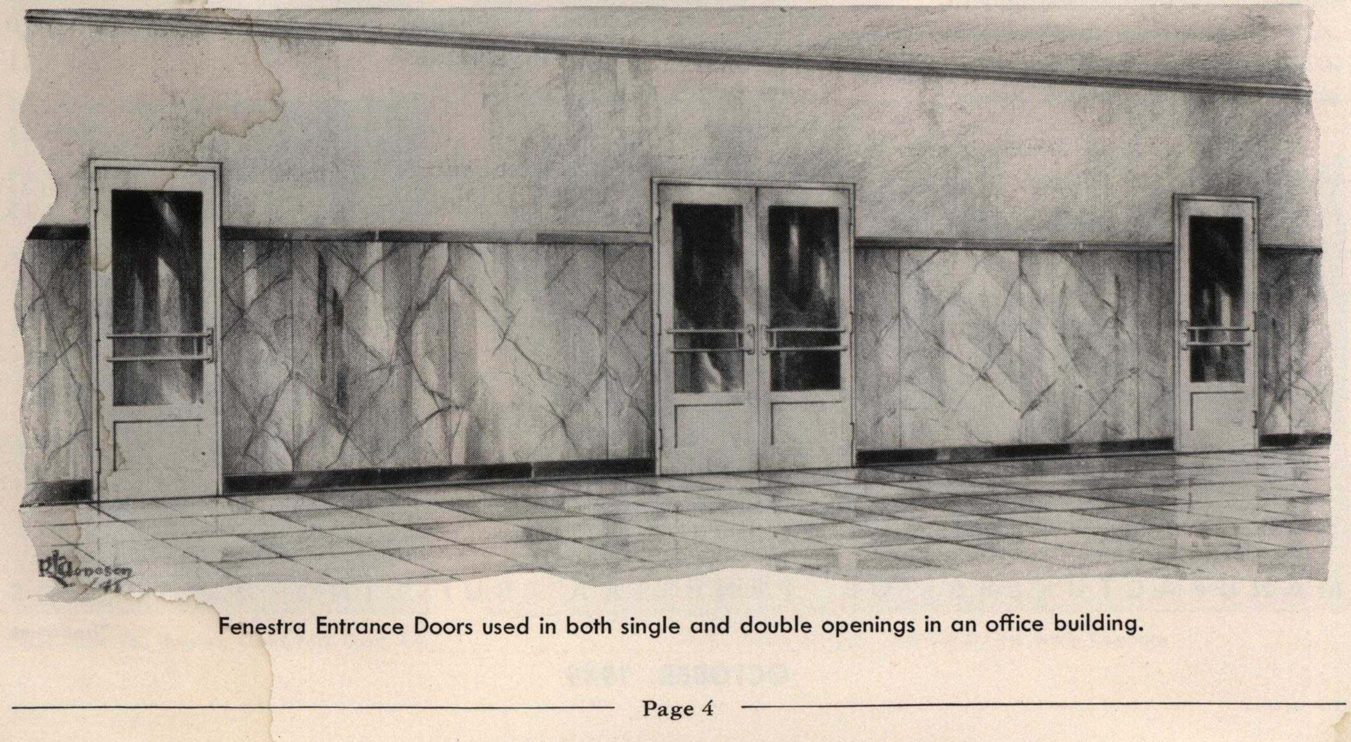
Factory mortising, drilling, tapping and prime painting saves time and cost in the field. Standardization and quantity production permit a low selling price. Quick delivery is assured—doors, frames and hardware are carried in stock.



Fenestra Entrance Door with standard lock.

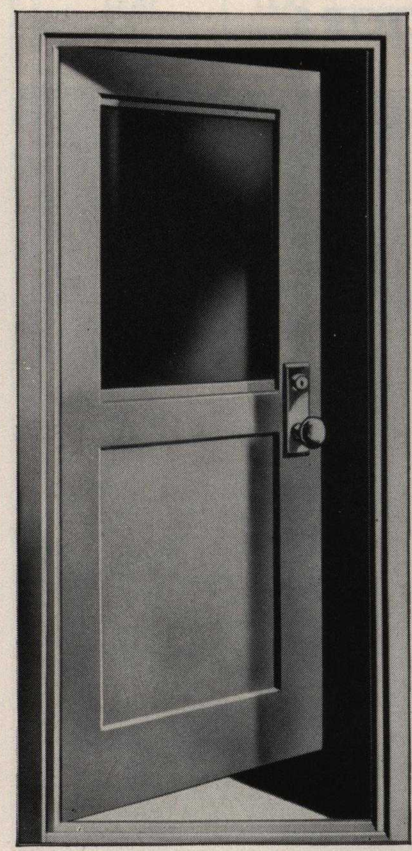


Fenestra Entrance Door with push and pull bars.

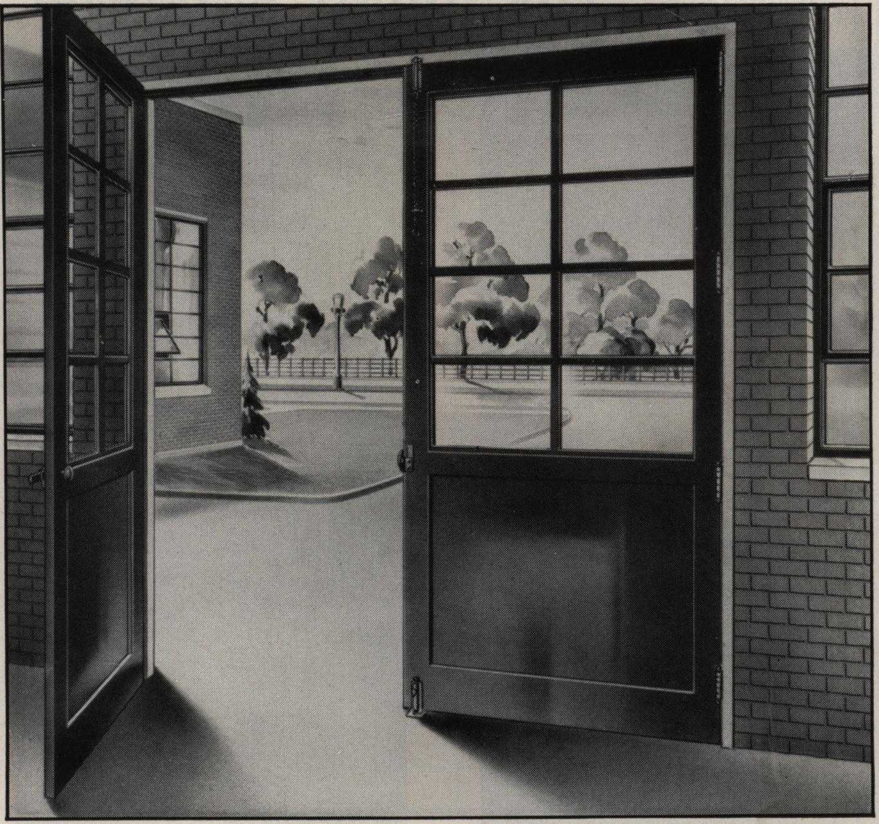


Fenestra Entrance Doors used in both single and double openings in an office building.

SWING DOORS AND FRAMES



Typical single door.



Typical double door—installed in industrial building.

FENESTRA Hollow Metal Swing Doors, either single or double, are used where fine appearance is to be combined with economy and lasting service. They are ideal for various locations in office buildings, apartments, schools, stores, factories, garages, filling stations, bakeries, dairies, etc.

The metal construction of Swing Doors protects from fire and prevents shrinking, warping or sticking. Easy, dependable operation is a permanent feature.

Swing doors are furnished complete with hardware and frames. Frames (*supplied only when specified*) are of 16-gauge steel. They are available for both single or double doors up to and including 8'0" high. Frames are rebated for screen doors. (*Screen doors are not furnished by Detroit Steel Products Company.*)

To save installation time, Fenestra Swing Doors are factory mortised, drilled and tapped for template hardware, and prime painted (baked on). The complete installation requires only four operations:

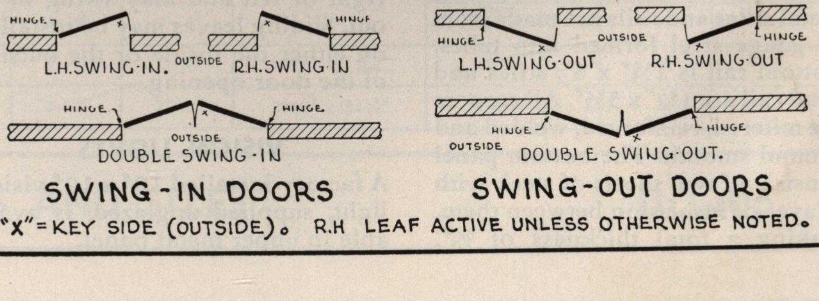
1. Bolt frame together.
2. Attach frame to floor with floor clips and to walls with wall clips.
3. Screw template locks and hinges to door and frame.
4. Hang door.

Compare this simple installation with the ten operations required for many doors:

1. Cut, fit and set jambs.
2. Cut, fit and set stops.
3. Cut, fit and set trim.
4. Countersink nails.
5. Putty holes.
6. Mortise frame and door for hinges.
7. Mortise frame and door for locks and strikes.
8. Attach hardware.
9. Hang door.
10. Prime paint.

If desired, Fenestra Swing Doors may be installed in structural frames, *but such frames are not furnished or machined by door manufacturer.*

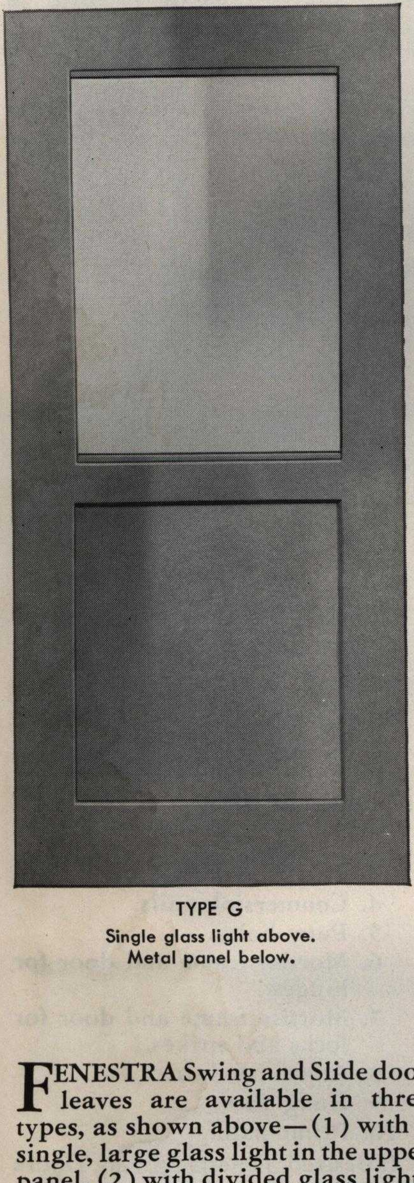
HAND AND SWING OF DOORS



"X" = KEY SIDE (OUTSIDE). R.H LEAF ACTIVE UNLESS OTHERWISE NOTED.

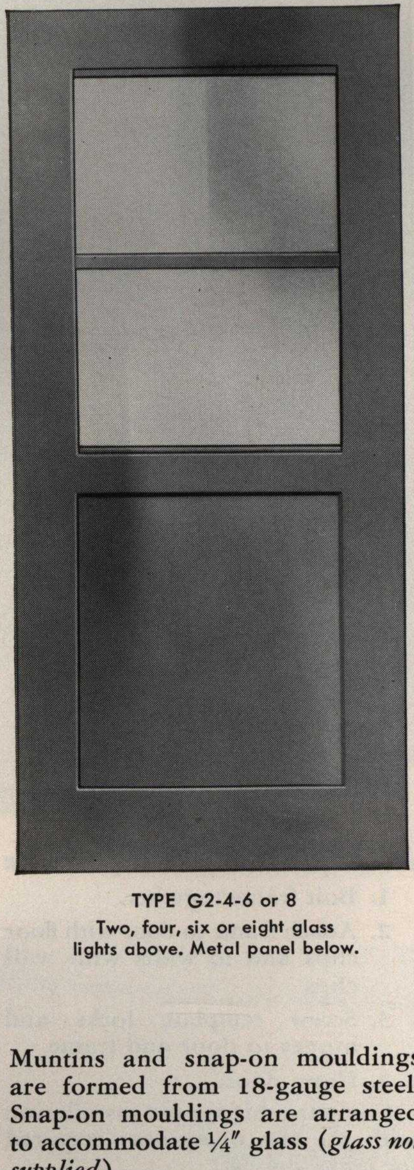
METAL DOOR LEAF TYPES

FOR SWING AND SLIDE DOORS



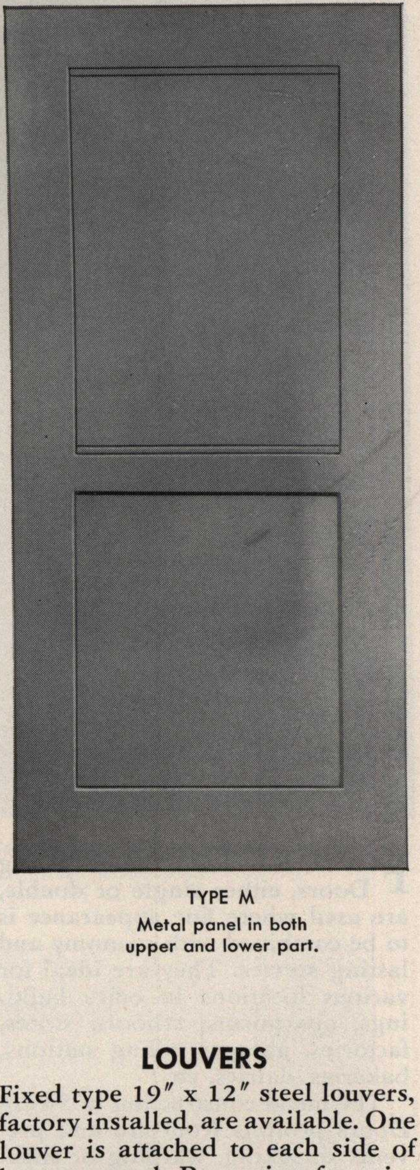
TYPE G

Single glass light above.
Metal panel below.



TYPE G2-4-6 or 8

Two, four, six or eight glass
lights above. Metal panel below.



TYPE M

Metal panel in both
upper and lower part.

FENESTRA Swing and Slide door leaves are available in three types, as shown above—(1) with a single, large glass light in the upper panel, (2) with divided glass lights in upper panel, and (3) with two steel panels. All three types are available from stock (*see pages 7 and 13 for stock sizes.*)

All door leaf types and sizes are of similar construction. Hollow metal stiles and rails are made from 16-gauge steel formed into tubes. Bottom rail is 1¾″ x 8″; stiles and head rail are 1¾″ x 5½″. All corners are mitered, reinforced, welded and ground smooth. The bottom panel consists of two sheets of steel, with a layer of insulation between them, making a total thickness of ⅜″. Muntins and snap-on mouldings are formed from 18-gauge steel. Snap-on mouldings are arranged to accommodate ¼″ glass (*glass not supplied*).

Both sides of each door leaf are identical in design, to provide an attractive appearance from either side.

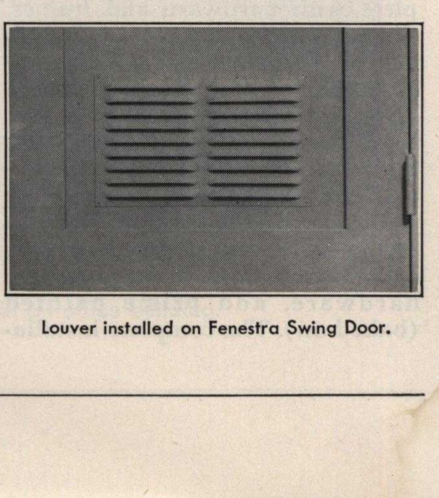
Swinging leaves may be hinged right or left and may swing in or out. Sliding leaves may be installed on either the inside or the outside of the door opening.

VISION LIGHTS

A factory-installed 10″ x 10″ vision light, supplied unglazed, is available in upper metal panel.

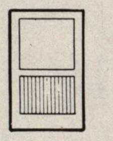
LOUVERS

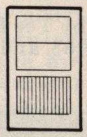
Fixed type 19″ x 12″ steel louvers, factory installed, are available. One louver is attached to each side of bottom panel. Protection from insects is provided by a 14-18 bronze fly mesh screen.

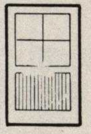


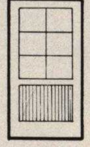
Louver installed on Fenestra Swing Door.

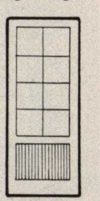
LEAF DESIGN

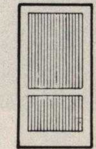

TYPE G
one glass light

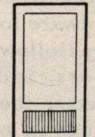

TYPE G-2
2 glass lights


TYPE G-4
4 glass lights


TYPE G-6
6 glass lights


TYPE G-8
8 glass lights


TYPE M
2 Metal Panels
Underwriter's door similar


TYPE LG
Entrance Door

LEAF TYPE	SINGLE DOORS			GLASS SIZES	DOUBLE DOORS		
	DOOR TYPE	DOOR OP'NG DIM.			DOOR TYPE	DOOR OP'NG DIM.	
		WIDTH	HEIGHT			WIDTH	HEIGHT
G	2868—G	2'—8"	6'—8"	21½" x 32¾"	5468—G	5'—4"	6'—8"
	2870—G	2'—8"	7'—0"	21½" x 36¾"	5470—G	5'—4"	7'—0"
	3068—G	3'—0"	6'—8"	25½" x 32¾"	6068—G	6'—0"	6'—8"
	3070—G	3'—0"	7'—0"	25½" x 36¾"	6070—G	6'—0"	7'—0"
	3468—G	3'—4"	6'—8"	29½" x 32¾"	6868—G	6'—8"	6'—8"
	3470—G	3'—4"	7'—0"	29½" x 36¾"	6870—G	6'—8"	7'—0"
	3870—G	3'—8"	7'—0"	33½" x 36¾"	7470—G	7'—4"	7'—0"
	4080—G	4'—0"	8'—0"	37½" x 48¾"	8080—G	8'—0"	8'—0"
G-2	2868—G2	2'—8"	6'—8"	21½" x 16"	5468—G2	5'—4"	6'—8"
	2870—G2	2'—8"	7'—0"	21½" x 18"	5470—G2	5'—4"	7'—0"
	3068—G2	3'—0"	6'—8"	25½" x 16"	6068—G2	6'—0"	6'—8"
	3070—G2	3'—0"	7'—0"	25½" x 18"	6070—G2	6'—0"	7'—0"
G-4	3468—G4	3'—4"	6'—8"	14⅜" x 16"	6868—G4	6'—8"	6'—8"
	3470—G4	3'—4"	7'—0"	14⅜" x 18"	6870—G4	6'—8"	7'—0"
	3870—G4	3'—8"	7'—0"	16⅜" x 18"	7470—G4	7'—4"	7'—0"
G-6	4080—G6	4'—0"	8'—0"	18⅜" x 15¾"	8080—G6	8'—0"	8'—0"
G-8	50100—G8	5'—0"	10'—0"	24⅜" x 15¾"	100100—G8	10'—0"	10'—0"
M	2068—M	2'—0"	6'—8"	TWO METAL PANELS	4068—M	4'—0"	6'—8"
	2868—M	2'—8"	6'—8"		5468—M	5'—4"	6'—8"
	2870—M	2'—8"	7'—0"		5470—M	5'—4"	7'—0"
	3068—M	3'—0"	6'—8"		6068—M	6'—0"	6'—8"
	3070—M	3'—0"	7'—0"		6070—M	6'—0"	7'—0"
	3468—M	3'—4"	6'—8"		6868—M	6'—8"	6'—8"
	3470—M	3'—4"	7'—0"		6870—M	6'—8"	7'—0"
	3870—M	3'—8"	7'—0"		7470—M	7'—4"	7'—0"
	4080—M	4'—0"	8'—0"		8080—M	8'—0"	8'—0"
UNDERWRITER'S	UW—3070—M	3'—0"	7'—0"		UW—6070—M	6'—0"	7'—0"
	UW—3470—M	3'—4"	7'—0"		UW—6870—M	6'—8"	7'—0"
	UW—3970—M	3'—9"	7'—0"		NOT MADE	—	—
LG	3070—LG	3'—0"	7'—0"	25½" x 54¾"	6070—LG	6'—0"	7'—0"
	3870—LG	3'—8"	7'—0"	33½" x 54¾"	7470—LG	7'—4"	7'—0"

SWING DOOR—TYPES AND SIZES

DO-106

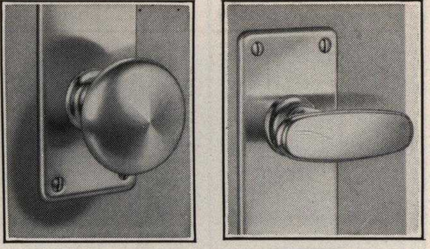
SWING DOOR LOCKS

TO ASSURE maximum ease of operation, with economy of first cost and maintenance, a complete line of door hardware, made to Fenestra specifications, has been developed by leading hardware manufacturers. All hardware is designed for the requirements of standard hollow metal doors.

Template locks are constructed with heavy, bronze U. S. Government fronts and strikes, wrought bronze knobs and escutcheons, and cast iron cases. All finishes are U.S. No. 10.

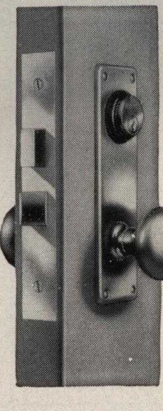
Fenestra Swing Doors are factory mortised and machined, and frames are factory machined, for Fenestra template locks and hinges.

Cylinder locks are not available for doors over 8′ 0″ high (use tee latch 1648).

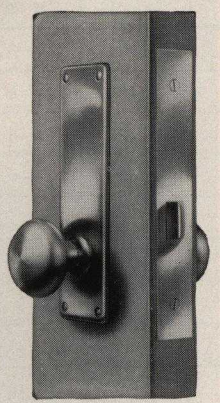


Knobs may be replaced by Tee Handle on locks 1979, 1980, 1983 and 1984.

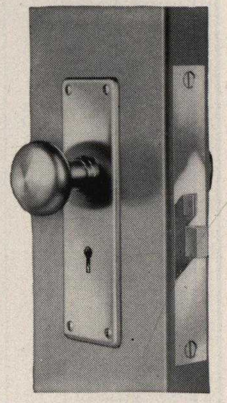
CYLINDER LOCK 1979—Latch bolt operated from inside and outside by knobs. Dead bolt operated by key outside and by thumb turn inside. For use in offices, etc., where a simple lock with the security of a dead bolt is required. U. S. Gov't No. 93.



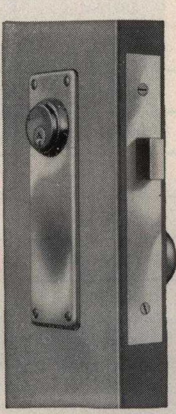
SIMPLE LATCH LOCK 1980—Operated from inside and outside by knobs. Acts only to hold door closed. Not equipped with dead bolt, stops, night works, keys or other devices for locking. For passage doors, closet doors, etc. U. S. Gov't No. 28.



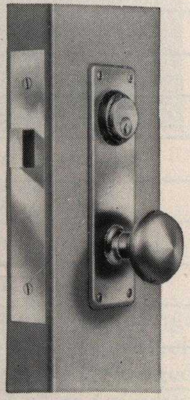
BIT KEY LOCK 1981—Latch bolt operated from inside and outside by knobs (no cylinders or other night works). Dead bolt locked or unlocked from inside or outside by 3-tumbler bit key. For locations requiring reasonable security. U. S. Gov't No. 4A.



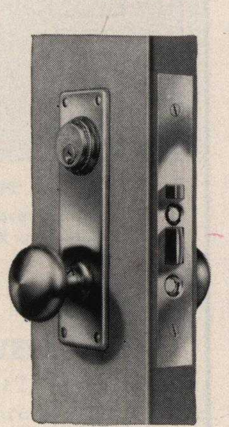
CYLINDER LOCK 1982—Dead bolt operated from outside by key, inside by thumb turn. Fixed knob on hinge side only. Recommended for use with door closer. Provides push and pull operation. Key operated dead bolt offers security. U. S. Gov't No. 114.



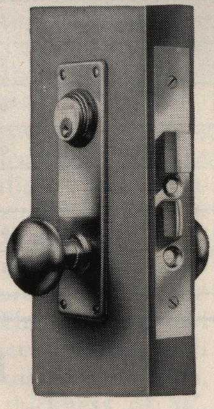
CYLINDER LOCK 1982-A — Dead bolt operated from both inside and outside by key. Fixed knob on hinge side only. Recommended for use with door closer. Provides push and pull operation. Key operated dead bolt offers security. U.S. Gov't No. 115.



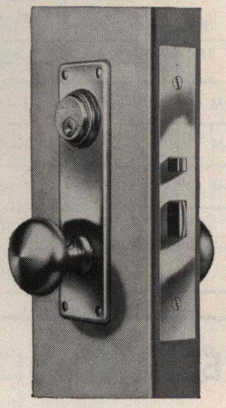
CYLINDER LOCK 1983—Latch bolt operated from inside and outside by knobs. Outside knob locked by stops, unlocked by key. Guard bolt, retracted when door is closed, locks latch bolt and prevents picking. No dead bolt. U. S. Gov't No. 97.

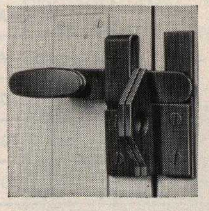


CYLINDER LOCK 1984—Latch bolt operated from inside and outside by knobs. Outside knob locked by stops, unlocked by outside key. Dead bolt operated from inside by thumb turn. Both bolts operated from outside by key. U. S. Gov't No. 88.



CYLINDER LOCK 1993—Inside operation at all times by knob. Cylinder outside only. Outside knob locked by key. Guard bolt, retracted when door is closed, locks latch bolt and prevents picking. No dead bolt. For schools especially.



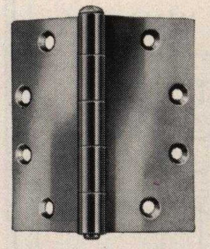


TEE LATCH 1648 — For attachment. inside or outside. Latch operated from both sides by handles. Locked by padlock.

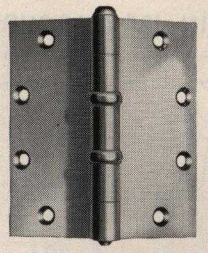
ORDERING INFORMATION

When ordering hardware for Fenestra Hollow Metal Doors, indicate whether the door swings in or out, and whether it is hinged right or left. Face door from outside to determine hand and swing.

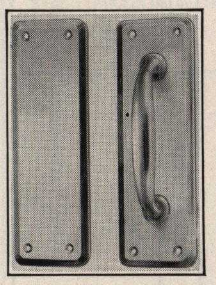
HARDWARE FOR SWING DOORS



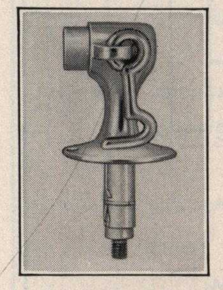
HINGE 1643 — 5″ full-mortise, template-type, loose-pin hinge. Solid steel. Primed for finish painting.



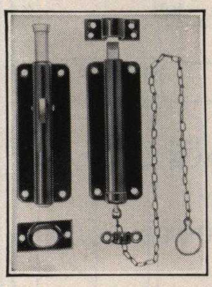
1643-A (steel) or 1643-B (bronze) 5″ full-mortise, template-type, loose-pin hinge with ball bearings.



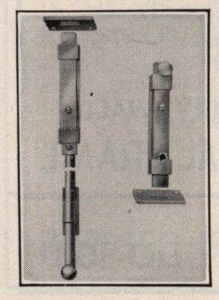
PUSH PLATE 1985 and PULL PLATE 1986 — 2¼″ x 7⅜″. For doors up to and including 8′ high. Pts. 1491 and 1490, 3½″ x 15″, also available. Bronze with U. S. No. 10 finish.



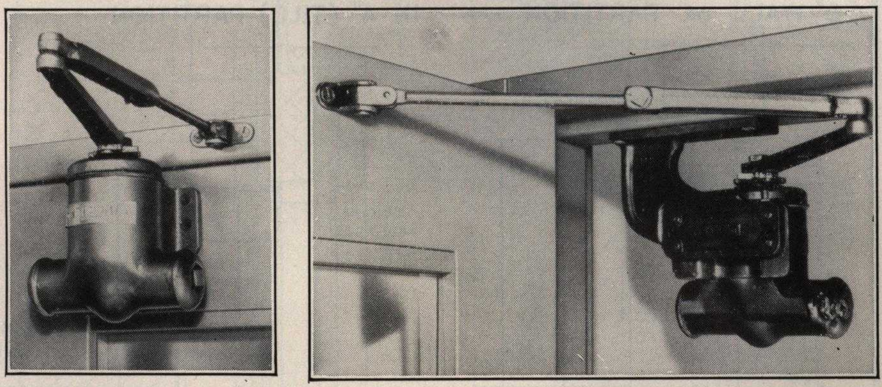
DOOR STOP 1493 — Constructed of cast bronze; U. S. No. 10 finish. Attached to floor. Supplied with eye for door. Door Stops furnished only when specified.



CHAIN BOLT 1987 and FOOT BOLT 1988 — For inactive leaf of double doors. Black finish steel bolts, housing and guides. Steel friction springs. 24″ steel chain.



HEAD BOLT 2110 and FOOT BOLT 2111 — For inactive leaf of double doors. Holds door leaf in open or closed position. Bronze with U. S. No. 10 finish.



DOOR CHECK—Rack and pinion type liquid door check. Part 1462 (U.S. Gov't No. 3003, size III) for 2868, 2870 and 3070 doors. Part 1463 (Gov't No. 3004, size IV) for 3870 doors and all Underwriters' Labeled doors. Part 1464 (Gov't No. 3005, size V) for 4080 doors. Where soffit brackets are required, door checks 1462, 1463 and 1464 use soffit brackets 1466, 1467 and 1468 respectively.

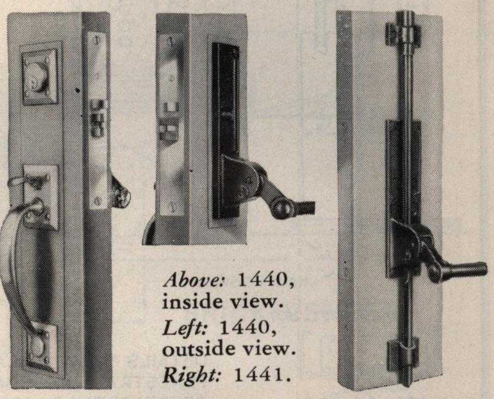
ANTI-PANIC HARDWARE SETS

Part 1440 (*right*), with inside and outside control, is used on open-out doors. It is equipped with a cylinder outside and a guarded latch bolt that is pick-proof. Inside operation: horizontal push bar retracts latch bolt; door opens from inside at all times. Outside operation: latch bolt is released by key and retracted by thumb-latch.

Part 1441 (*far right*) has inside control only. Operation is by horizontal push bar that retracts vertical locking bolt at top and bottom of door, allowing quick exit. Door cannot be opened from outside.

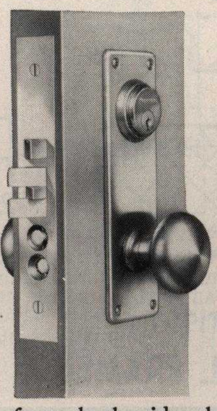
Parts 1440 and 1441 are standby hardware for casual use only.

For heavy duty, substitute parts 1990 and 1991 respectively.



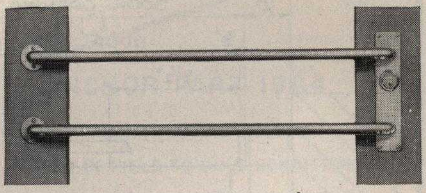
Above: 1440, inside view.
Left: 1440, outside view.
Right: 1441.

HARDWARE FOR UNDERWRITERS' LABELED DOOR

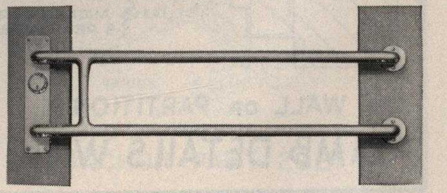


Cylinder lock 1660 (*left*) has night works and guarded latch bolt. A ¾″ anti-friction pick-proof latch bolt is operated from both sides by knobs. Outside knob is locked by stops, unlocked by key. No dead bolt. Simple latch 1660-C (*not shown*) has ¾″ anti-friction latch bolt operated from both sides by knobs. It is not equipped with locking devices. Both locks, 1660 and 1660-C, have been approved by Underwriters' Laboratories.

HARDWARE FOR ENTRANCE DOORS 3070 AND 6070



Inside view—open-out door.



Outside view—open-out door.

Entrance doors use any Swing door lock or, at extra cost, bronze Push and Pull Bars 1999 with lock 1982-C (not shown).

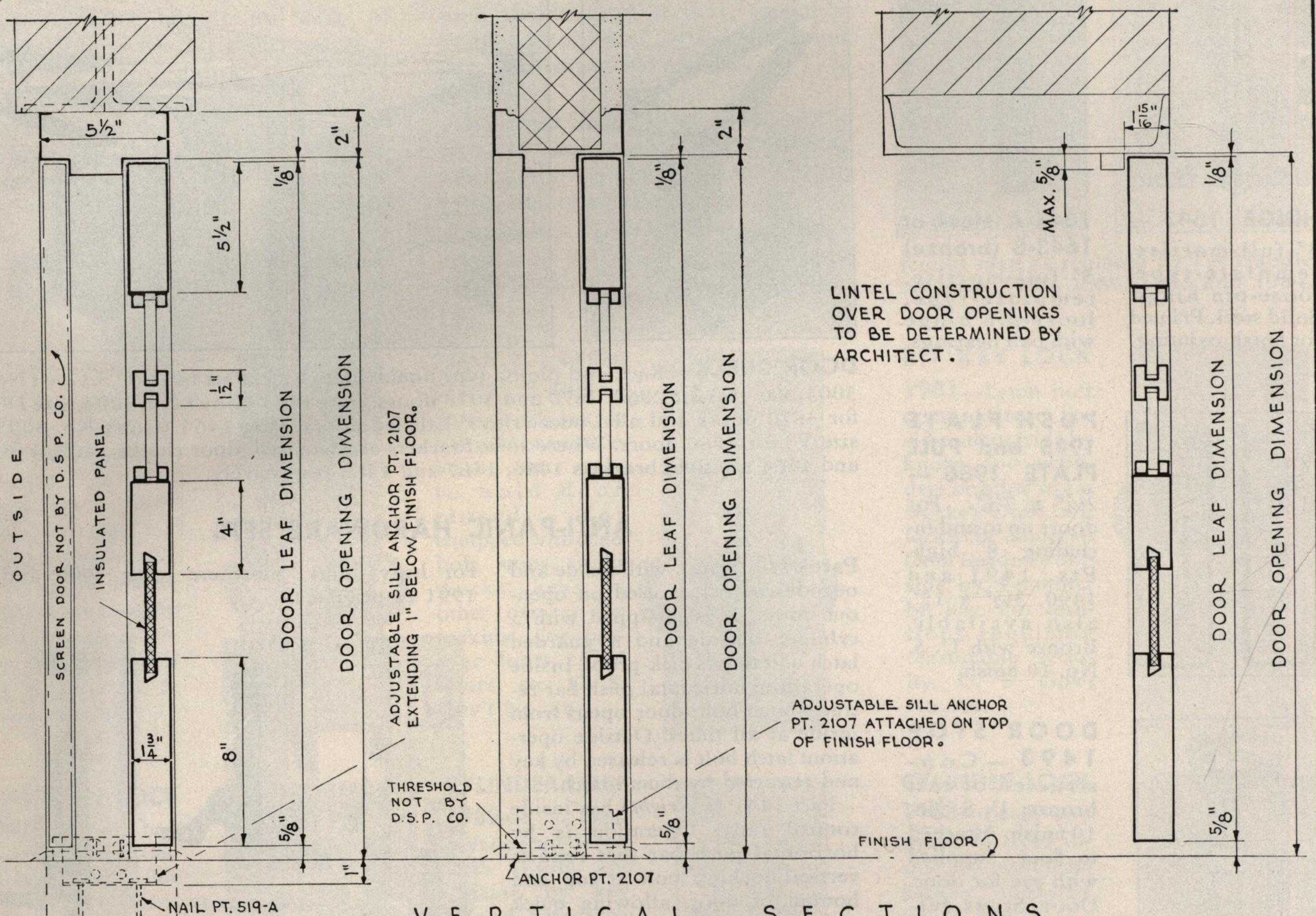
WITH FENESTRA PRESSED STEEL FRAME

WITH STRUCTURAL FRAME

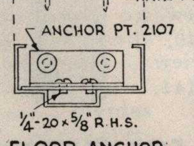
8" WALL or PARTITION

IN 4" (TILE) PARTITION

IN 12" MASONRY WALL

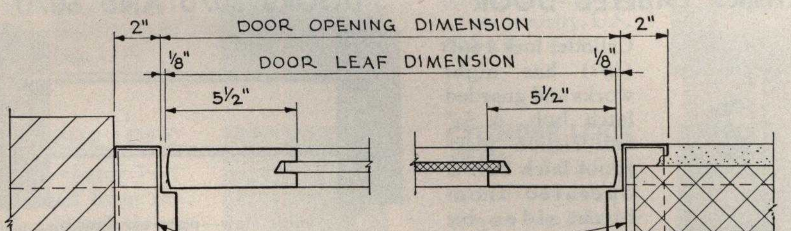

5½"
2"
⅛"
5½"
1½"
4"
8"
1¾"
⅝"
1"
OUTSIDE
SCREEN DOOR NOT BY D.S.P. CO.
INSULATED PANEL
DOOR LEAF DIMENSION
DOOR OPENING DIMENSION
ADJUSTABLE SILL ANCHOR PT. 2107 EXTENDING 1" BELOW FINISH FLOOR.
NAIL PT. 519-A
2"
⅛"
THRESHOLD NOT BY D.S.P. CO.
⅝"
ANCHOR PT. 2107
DOOR LEAF DIMENSION
DOOR OPENING DIMENSION
ADJUSTABLE SILL ANCHOR PT. 2107 ATTACHED ON TOP OF FINISH FLOOR.
1 15/16"
MAX. ⅝"
⅛"
LINTEL CONSTRUCTION OVER DOOR OPENINGS TO BE DETERMINED BY ARCHITECT.
DOOR LEAF DIMENSION
DOOR OPENING DIMENSION
FINISH FLOOR
⅝"

VERTICAL SECTIONS



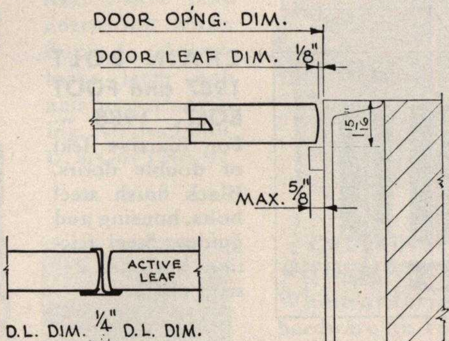
FLOOR ANCHOR

DETAILS SHOW INSTALLATION AND DIMENSION POINTS OF FENESTRA SINGLE AND DOUBLE SWING DOORS. FOR OTHER DETAILS CONSULT A FENESTRA REPRESENTATIVE. STRUCTURAL FRAMES AND ALL COLLATERAL STEEL NOT BY DETROIT STEEL PRODUCTS COMPANY.



8" WALL or PARTITION

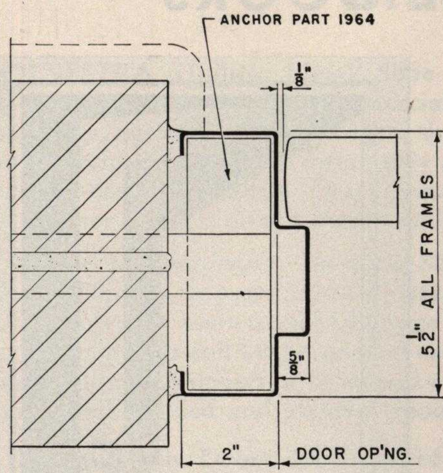
4" (TILE) PARTITION



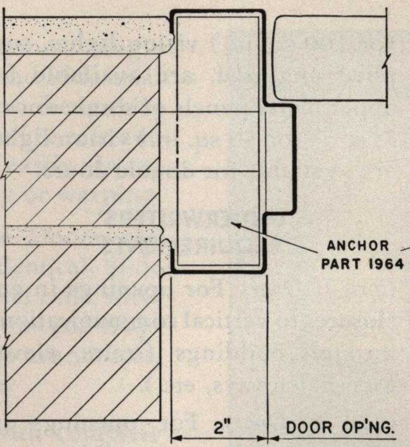
12" MASONRY WALL

JAMB DETAILS WITH PRESSED STEEL FRAME

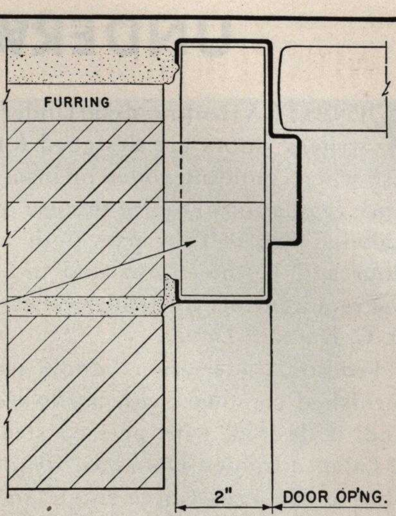
STRUCTURAL FRAME



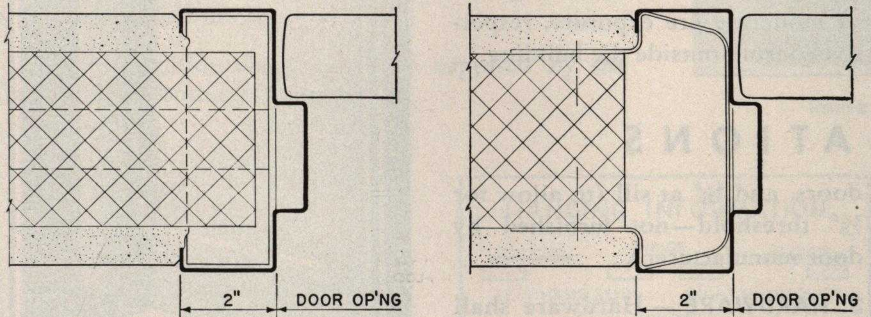
SOLID BRICK OR CONCRETE BLOCK



SOLID MASONRY WITH PLASTER



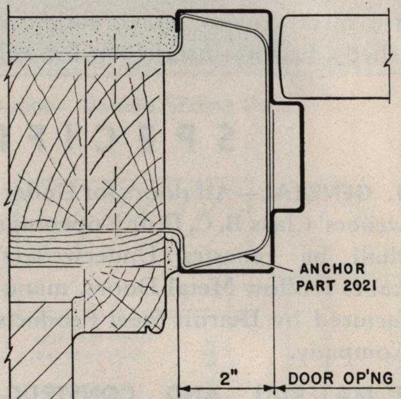
SOLID MASONRY WITH FURRING



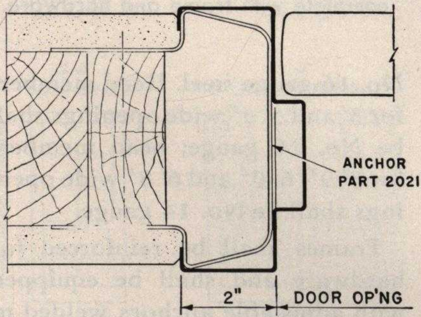
WITH ANCHOR PART 1964

WITH ANCHOR PART 2021

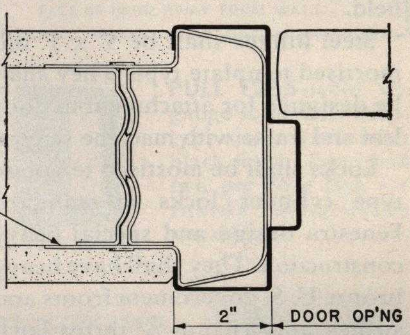
4" GYPSUM OR HOLLOW TILE PARTITION



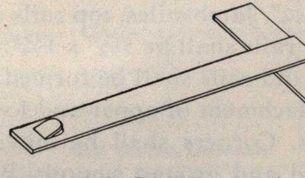
BRICK VENEER



WOOD STUD PARTITION

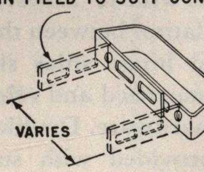


STRAN STEEL STUD PARTITION



ANCHOR PART 1964

BEND IN FIELD TO SUIT CONDITION



ANCHOR PART 2021

DETAILS SHOW JAMB DETAILS FOR PRESSED STEEL FRAMES INSTALLED IN VARIOUS WALL OR PARTITION CONSTRUCTIONS. ANCHORS PART 1964 ARE SUPPLIED UNLESS ANCHORS PART 2021 ARE SPECIFIED (3 ANCHORS SUPPLIED FOR EACH JAMB). ANCHORS PART 2021 MUST BE USED WITH BRICK VENEER WALL OR WOOD OR STRAN-STEEL STUD PARTITIONS.

PRESSED STEEL FRAMES—INSTALLATION

DO-105

UNDERWRITERS' B-LABEL DOORS

FENESTRA Hollow Metal Underwriters' doors are designed for use where building codes or insurance regulations require the use of Labeled doors. They pass both 1-hour and 1½-hour tests and meet the requirements for Underwriters' B, C, D and E Labels.

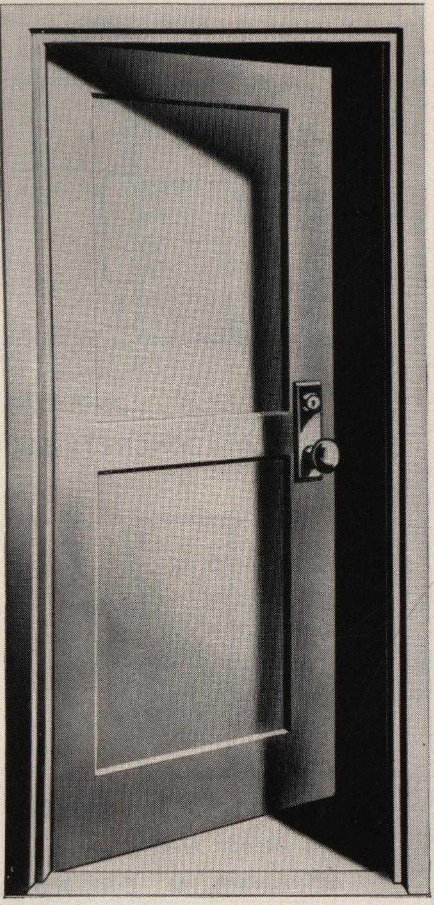
Fenestra Underwriters' doors are furnished complete with hardware and, if desired, with pressed steel B-Labeled frames. Doors are available in five sizes (three single and two double—see page 7). All sizes are carried in stock for quick delivery. Both upper and lower panels are metal (glass panel not furnished). Factory-installed 10″ x 10″ (or 100 sq. in.) vision lights, supplied unglazed, are available for upper metal panels of single doors; 7″ x 7″ (or 50 sq. in.) vision lights are available for double doors.

UNDERWRITERS' REQUIREMENTS

Class B Doors. For openings in enclosures to vertical communications through buildings (stairs, elevators, hatchways, etc.).

Class C Doors. For openings in corridors and room partitions.

Class D and E Doors. For openings in exterior walls which have severe or moderate fire exposure, respectively, from outside the building.



Fenestra Hollow Metal B Label Door, complete with frame and hardware.

SPECIFICATIONS

1. GENERAL—All doors for Underwriters' Class B, C, D or E openings shall be Fenestra Underwriters' Label Hollow Metal Doors, manufactured by Detroit Steel Products Company.

2. MATERIAL AND CONSTRUCTION—Stiles and rails shall be No. 16 gauge steel, formed and welded into tubes, with ⅛″ asbestos insulation. Bottom rails shall be 8″ x 1¾″. Jamb stiles, top rails and center rails shall be 5½″ x 1¾″. All stiles and rails shall be formed for the attachment of upper and lower panels. Corners shall be mitered, welded and ground smooth. Both upper and lower panels shall consist of two No. 18 gauge (.048) metal sheets with ¼″ asbestos millboard insulation between them.

Lock and hinge stiles shall be accurately mortised and reinforced to receive hardware. Double doors shall be provided with standard astragal attached to left (inactive) leaf.

Door leaf dimension shall allow for clearance of ⅛″ at head, side jambs and meeting rail of double doors, and ⅝″ at sill (to allow for ⅜″ threshold—not furnished by door manufacturer).

3. HARDWARE — Hardware shall be furnished by door manufacturer and shall be packed and shipped separately for attachment in the field.

Steel hinges shall be 5″ x 5″ full mortised template type. They shall be designed for attachment to door leaf and frame with machine screws.

Locks shall be mortised template type cylinder locks of standard Fenestra design and special heavy construction. They shall have heavy bronze U. S. government fronts and strikes, anti-friction ¾″ throw latch bolt, cast iron case, and wrought bronze or heavy case bronze knobs and escutcheons (2¾″ backset). Surface applied top and bottom bolts, door stops and door checks shall be of standard Fenestra design.

4. FRAMES—Pressed metal frames shall be of standard Fenestra design. (Structural frames are not furnished by Detroit Steel Products Company.) All jambs shall be No. 16 gauge steel. Head members for 3′ and 3′ 4″ wide openings shall be No. 16 gauge; head members for 3′ 9″, 6′ 0″ and 6′ 8″ wide openings shall be No. 14 gauge.

Frames shall be reinforced for hardware and shall be equipped with adjustable anchors welded to jamb members. Frames shall be shipped knocked down.

5. SHOP FINISH— All doors and frames shall receive one coat of baked on primer inside and outside before shipment.

6. ERECTION—Doors and frames shall be erected plumb and true, with all hardware left in proper working order by field erector.

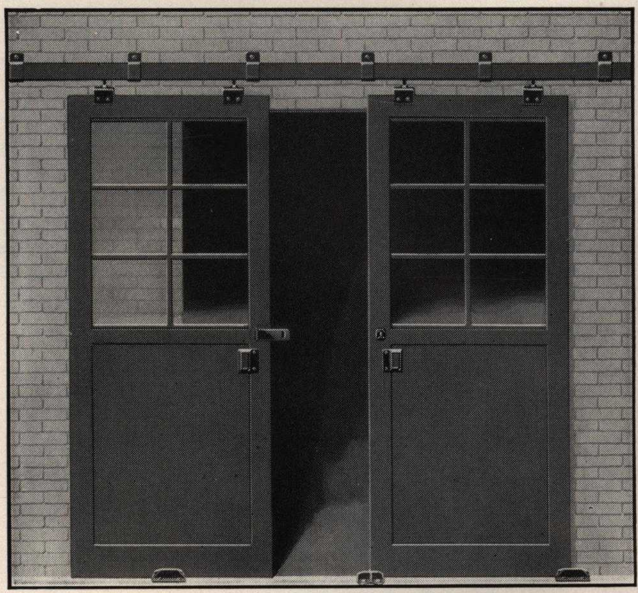
METAL SLIDE DOORS

FENESTRA Hollow Metal Slide Doors, single or double, are used in commercial and industrial buildings, such as stores, garages, shops, creameries and warehouses. Made of metal, they are fire-safe and will not crack or splinter. They operate easily always —weather changes do not cause swelling or warping.

Except for hardware, Fenestra Slide Doors and Swing Doors (*see pages 5 and 6*) are identical. Slide Doors have the same sturdy 16-gauge steel rails, stiles and plate panels and 18-gauge steel muntins and snap-on mouldings. Corners of stiles and rails are mitered, reinforced, welded and ground smooth.

Fenestra Slide Doors are provided with complete track equipment, including brackets, track, trolleys and clevises. Hand pulls, floor guides, stops, binders, hasp and staple are also furnished. An astragal is supplied with double doors.

Frames for Slide Doors are not supplied by the Detroit Steel Products Company.

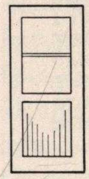


Inside Elevation—Double Sliding Door

STOCK TYPES

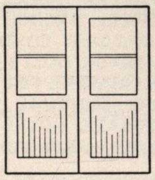
6'-10" DOOR OPENING

2'-8" DOOR OP'NG



3070-G2-SL

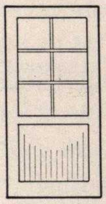
5'-8" DOOR OPENING



6070-G2-SL

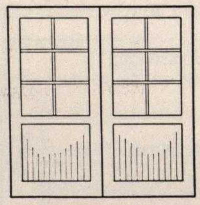
7'-10" DOOR OPENING

3'-8" DOOR OP'NG



4080-G6-SL

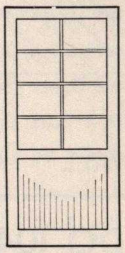
7'-8" DOOR OPENING



8080-G6-SL

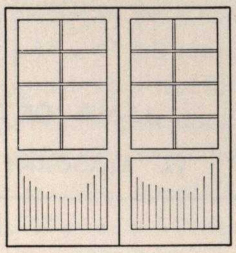
9'-10" DOOR OPENING

4'-8" DOOR OP'NG



50100-G8-SL

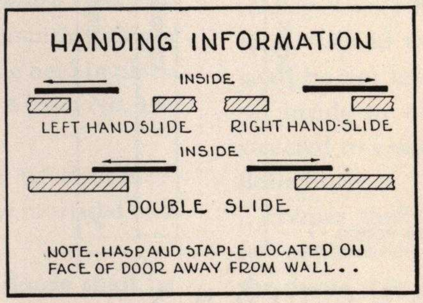
9'-8" DOOR OPENING

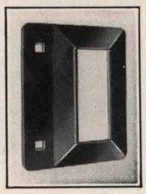


100100-G8-SL

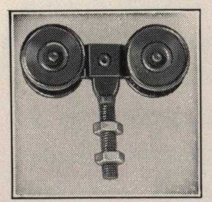
SINGLE DOORS

DOUBLE DOORS

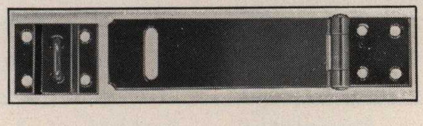




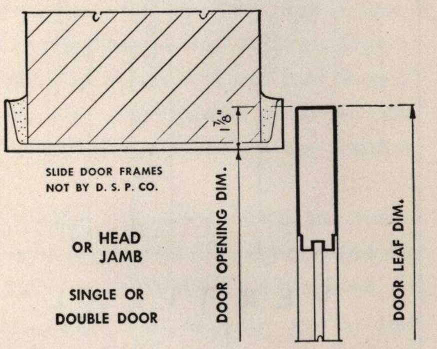
PULL 1265—No. 12-gauge solid steel flush-type door pull, with black finish. Furnished two per door leaf, for inside and outside attachment.

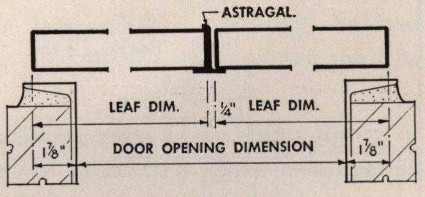


TROLLEY 1617—Roller bearing construction. Steel with black finish. Designed for long-lasting service.

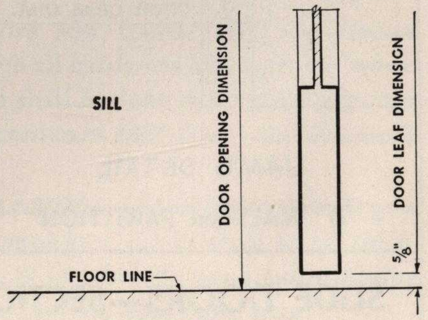


HASP AND STAPLE 1639—For single and double doors. Black finish on solid steel. (Padlock not supplied.)

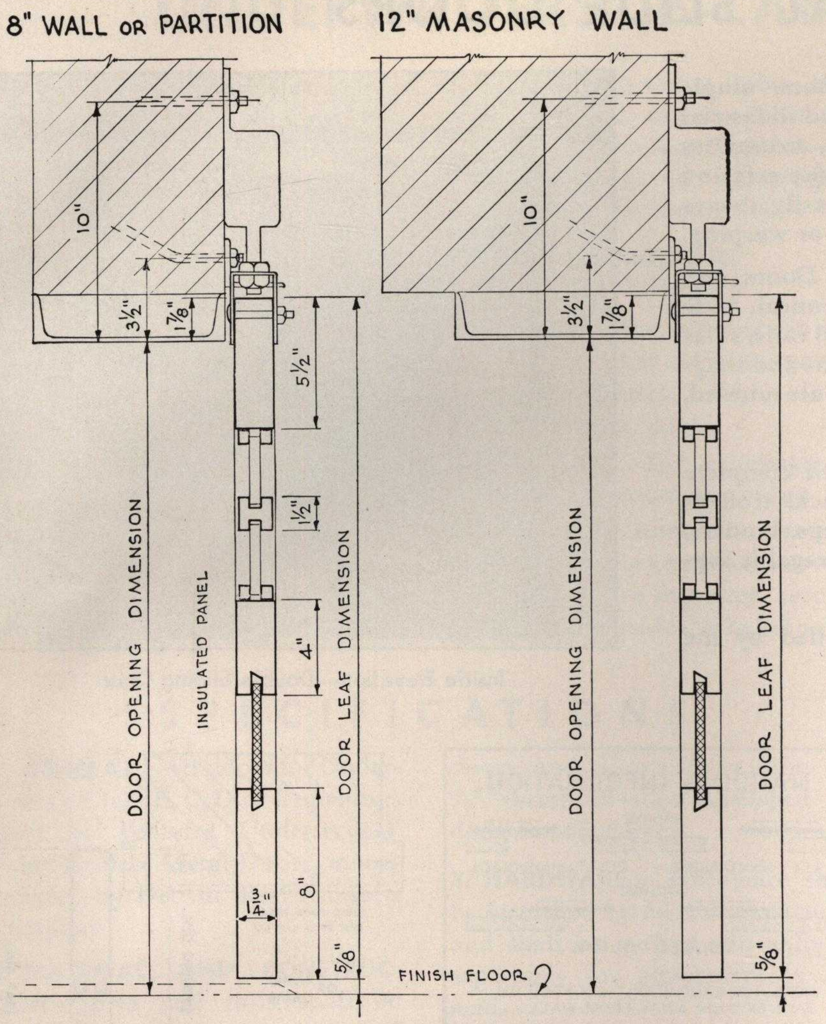




HORIZONTAL SECT DOUBLE DOOR

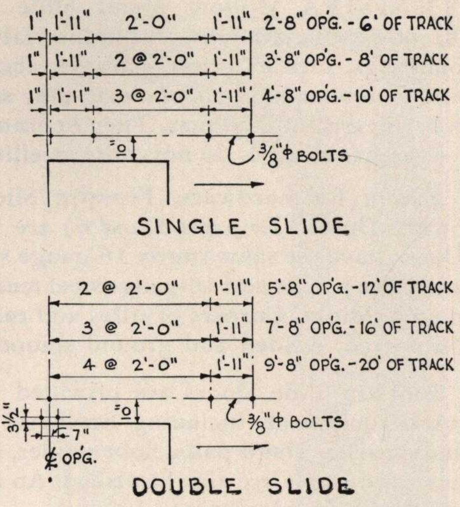


SECTION THRU DOOR

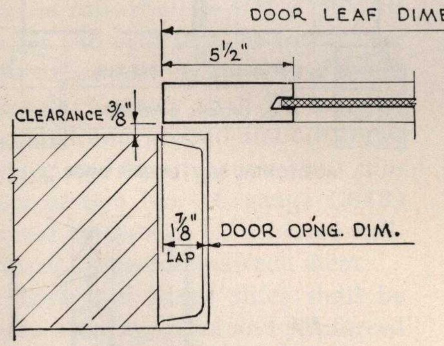


VERTICAL SECTIONS

BOLT LOCATION FOR TRACK BRACKETS AND CENTER STOP

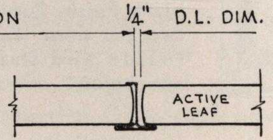

1" 1'-11" 2'-0" 1'-11" 2'-8" OP'G. - 6' OF TRACK
1" 1'-11" 2 @ 2'-0" 1'-11" 3'-8" OP'G. - 8' OF TRACK
1" 1'-11" 3 @ 2'-0" 1'-11" 4'-8" OP'G. - 10' OF TRACK
⅜"φ BOLTS
SINGLE SLIDE
2 @ 2'-0" 1'-11" 5'-8" OP'G. - 12' OF TRACK
3 @ 2'-0" 1'-11" 7'-8" OP'G. - 16' OF TRACK
4 @ 2'-0" 1'-11" 9'-8" OP'G. - 20' OF TRACK
3½"
7"
℄ OP'G.
⅜"φ BOLTS
DOUBLE SLIDE

DETAILS SHOW INSTALLATION AND DIMENSION POINTS OF FENESTRA SINGLE AND DOUBLE SLIDE DOORS. STRUCTURAL STEEL FRAMES AND ALL COLLATERAL STEEL NOT BY DETROIT STEEL PRODUCTS COMPANY. MASONRY CONTRACTOR TO SET ANCHOR BOLTS FOR OVERHEAD HARDWARE PER DIAGRAMS ABOVE. USE PHYSICAL TEMPLATES TO LOCATE HOLES FOR WALL STOPS AND FLOOR GUIDES.

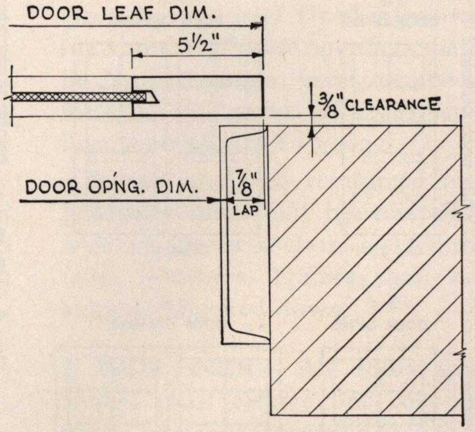


JAMB DETAIL

8" WALL or PARTITION



MEETING RAIL OF DOUBLE DOOR



JAMB DETAIL

12" MASONRY WALL

SLIDE DOORS—SECTIONS, INSTALLATION

DO-104

SPECIFICATIONS FOR SWING AND SLIDE DOORS

1. GENERAL—All swinging or sliding steel doors, single or double, shall be "Fenestra Hollow Metal Swing or Slide Doors," as manufactured by the Detroit Steel Products Company.

2. CONSTRUCTION—Stiles and rails shall be No. 16-gauge steel, formed into tubes. Bottom rails shall be 8″ x 1¾″. Jamb stiles and top rail shall be 5½″ x 1¾″. Center rail bar shall be 4″ x 1¾″. Stiles and rails to be mitered at door corners, welded and ground smooth. The design of the door leaf shall be such as to present an identical appearance from either side.

Lower door panel shall be fitted with two steel plates, with a layer of insulation between them, to make a total thickness of ⅜″, and shall be locked to door stiles and rails at assembly.

Upper panels shall be arranged to receive: (a) one large light of ¼″ glass; or (b) an insulated steel panel; or (c) a division into two or more glass lights (*in accordance with door manufacturer's standard types*) by the use of No. 18-gauge pressed steel muntins. Glass or steel plate in upper door panel shall be held in place by continuous glazing mouldings formed from No. 18-gauge steel.

Lock stiles shall be moulded to allow ⅛″ clearance. Lock and hinge stiles shall be accurately mortised and reinforced to receive locks and hinges.

Inactive leaf of each pair of double doors shall be equipped with a pressed metal astragal formed from No. 16-gauge steel.

Swing door leaf dimensions shall allow for clearances of ⅛″ at head and jambs, ¼″ at meeting rail of double doors, and ⅝″ at sill (*to allow for ½″ threshold —not furnished by door manufacturer*).

Slide door leaf dimensions shall allow for lapping the opening 1⅞″ at head and jambs, with clearance of ⅝″ at sill.

3. HARDWARE—*FOR SWING DOORS:* All door hardware shall be furnished by door manufacturer.

Hinges shall be 5″ x 5″ full mortise, template type. They shall be supplied 3 per leaf for doors up to 7′-6″ high and 4 per leaf for higher doors. Machine screws shall be used to attach hinges to doors and frames.

Locks shall be mortise, template-type simple latch or cylinder locks of standard Fenestra design and of special heavy construction for steel doors. They shall have a 2¾″ backset and shall be U. S. Government type with heavy bronze fronts and strikes, cast iron cases, wrought bronze knobs (T-lever handle optional) and escutcheons. Cylinder locks shall have a protected front. Tee latches, where required, shall be of heavy steel construction, with a black finish.

Chain bolt and foot bolt shall be supplied for inactive leaf of all double doors. Door checks and door stops, where required, shall be of standard Fenestra design.

FOR SLIDE DOORS: All door hardware shall be furnished by door manufacturer, packaged and shipped separately for attachment in the field.

Hardware shall include all necessary track, track brackets, trolleys, hangers, hasp and staple, hand pulls, floor guides, door stops, etc. (*General contractor shall provide for installation of ⅜″ bolts and nuts, as indicated on door manufacturer's diagrams, for attachment of track equipment.*)

4. FRAMES—(*For swing doors only; not furnished for sliding doors.*) Frames shall be No. 16-gauge pressed steel, formed with integral stops and rebates. Frames shall be not less than 5½″ deep, and not less than 2″ on inside or outside face. Side jambs shall be constructed to extend not less than 1″ below the finished floor line.

Frames shall be shipped knocked down, machined for attachment of hardware, and clearly marked for the doors they fit. Jamb anchors shall be included.

5. LOUVERS—(*If required*) One louver, 19″ x 12″, shall be attached to each side of bottom panel and shall be arranged to provide a neat and finished appearance. A 14-18 bronze fly mesh screen shall be provided.

6. VISION LIGHTS—(*If required.*) One vision light, 10″ x 10″, unglazed, shall be installed in upper metal panel.

7. SHOP FINISH—All doors and frames shall receive one shop coat of baked on metallic primer before shipment.

8. ERECTION—Doors and frames shall be erected plumb and true, with all hardware left in proper working order. Erection shall be done by a competent door erector and in accordance with door manufacturer's instructions.

9. GLASS AND GLAZING—(*To be inserted in the general "Glazing" specifications.*) Glass shall be ¼″ thick, bed puttied and held in place by continuous glazing mouldings furnished by the door contractor.

Underwriters' Doors—See specifications, page 12.

DETROIT STEEL PRODUCTS COMPANY

General Offices: 2250 East Grand Blvd., Detroit 11, Michigan

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